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Papadopoulos, E.; Mu, B.; Frenette, R.;
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Volume 1, 20-25 April 1997 Page(s):60 - 65 vol.1
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- ☐ 2. **On modeling, identification, and control of a heavy-duty electrohydraulic harvester manipulator**
Papadopoulos, E.; Bin Mu; Frenette, R.;
[Mechatronics, IEEE/ASME Transactions on](#)
Volume 8, Issue 2, June 2003 Page(s):178 - 187
Digital Object Identifier 10.1109/TMECH.2003.812820
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- ☐ 3. **On the modeling and control of an experimental harvester machine manipulator**
Papadopoulos, E.; Frenette, R.; Bin Mu; Gonthier, Y.;
[Intelligent Robots and Systems, 1997. IROS '97., Proceedings of the 1997 IEEE/RSJ](#)
[International Conference on](#)
Volume 3, 7-11 Sept. 1997 Page(s):1832 - 1837 vol.3
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... **gear train** ... The discrete **simulation** of the PQFT remained stable in the large, but ... first attempts at angular control resulted in small **amplitude**, high **frequency** ...

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JN Juang, LG Horta - Journal of Guidance, Control and Dynamics, 1987 - pdf.aiaa.org

... motion was less than predicted in **simulation**, probably because ... motor inertia by I,, the **gear train** viscous drag ... minimize the excitation of high-**frequency** modes ...

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Effects of Atmosphere on Slewing Control of A Flexible Structure

VA Hampton - pdf.aiaa.org

... The solidline represents **simulation** data, whereas the ... to the dissipativeeffect of the **gear train** backlash not ... 6) is generallya functionof vibration **amplitude**. ...

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... gear systems [18, 19 and 20], planetary **gear train** [21 and ... the wavelet transform can provide the **amplitude** and phase ... 2. A **simulation** signal (a) and its wavelet ...

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An investigation of crankshaft oscillations for cylinder health diagnostics - group of 3

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M Geveci, AW Osburn, MA Franchek - Mechanical Systems and Signal Processing, 2005 - Elsevier

... angular position (rad) y g **gear-train** angular position ... In [6,7], **frequency**-response function models of ... state operating point affects the **amplitude** and phase of ...

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book A Parametric Study of Spur Gear Dynamics - group of 2 »

HH Lin, CH Liou - 1998 - ntrs.nasa.gov

... technique to perform mode shape and **frequency** analysis in ... computer **simulation** results revealed the effect of each individual ... when designing a **gear train** system ...

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Development and Implementation of Compliant Controller On Manus Robot Arm

AR Konuk - student.utwente.nl

... **Simulation** **parameter identification** ... **gear train** ...

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TL Brooks, STX Robotics, MD Lanham - Systems, Man and Cybernetics, 1990. Conference Proceedings., ..., 1990 - ieeexplore.ieee.org

... 400 Hz), and (4) skin stretch (very low **frequency**). ... up to 320 Hz low-**amplitude** vibrational information ... alleviate nonlinear effects of the **gear train** and actuator ...

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Solutions to Typical Motor Load Emulation Control Problems

B Hassania, P Sicard, A Ba-razzouk - opal-rt.com

... of the dynamometer and coupling or **gear train**; it is ... or hardware in the loop **simulation** [4] constitutes an ... the load torque response (**amplitude** and eventually ...

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... chanical operation of this **gear train** dees conventional understanding of gear behaviour ... **frequency** range. ... are analysed through **simulation** and reported in 18]. ...

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OnModeling, Identification, andControlofaHeavy-Duty Electrohydraulic Harvester Manipulator - group of 3 »

E Papadopoulos, B Mu, R Frenette - IEEE/ASME TRANSACTIONS ON MECHATRONICS, 2003 - ieeexplore.ieee.org

... servo-control applications in a **simulation** or a ... where is the line-**oscillation frequency** observed (about 3 Hz ... into the damping of the **gear train** connected to its ...

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... **gear train** ... The discrete **simulation** of the PQFT remained stable in the large, but exhibited a small angular ... Reducing the system gain eliminated the **oscillation**. ...

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System Modelling, Identification and Coordinated Control Design for an Articulated Forestry Machine

B Mu - 1996 - collectionscanada.ca

... 4 6 4.1 BASICS OF **PARAMETER IDENTIFICATION** 5.2.2 Effects of Manipularor Natural **Frequency** 78 5.2.3 Elefers of Accuracy of Manipulator Models ...

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M Geveci, AW Osburn, MA Franche - Mechanical Systems and Signal Processing, 2005 - Elsevier

... housing angular position (rad) y g **gear-train** angular position ... no artificial imbalance, the magnitude ofthe **oscillations** at the ... **Frequency**, periods/engine cycle ...

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THE FLOATING DUTCHMEN - group of 2 »

T Bernardi, B Lewis, M Rosmarin - cats.rpi.edu

... of the motors, backlash in the **gear train**, and the ... loop rates, and time delays in the **simulation**. ... By finding the **frequency** of **oscillation** and measuring the ...

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A Slewing Control Experiment for Flexible Structures

HH Robertshawt - pdf.aiaa.org

... w2 is a diagonal matrix with elements W , as the **frequencies** corresponding to ... this

experiment is a dc electric motor, with a **gear train** and electromechanical ...
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Control of low velocity friction and gear backlash in a machine tool feed drive system
- group of 4 »

K Menon, K Krishnamurthy - Mechatronics, 1999 - Elsevier
... in position and limit cycle **oscillations** around the ... But the **simulation** results presented
showed that the ... lead screw transmission system through a **gear train**. ...
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and its wavelet ... wavelet packet algorithm into free-**oscillation** testing method ...
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A Survey of Experiments for Modeling Verification and Control of Flexible Robotic
Manipulators

A Hu - Aerospace Control Systems, 1993. Proceedings. The First IEEE ..., 1993 - ieeexplore.ieee.org
... Many powerful multibody modeling and **simulation** codes have ... the resid- ual elastic
oscillations at the ... of the servo motor is transmitted through a **gear train**. ...
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